

# Nithish Chouti

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
BTech. Computer Science and Engineering	Indian Institute of Information Technology (IIIT), Dharwad, Karnataka	CGPA: 8.97	Expected May 2025
Senior Secondary (12th)	Delhi Public School, Nacharam, Telangana	Percentage: 96.4%	April 2021
Secondary (10th)	Delhi Public School, Nacharam, Telangana	Percentage: 96%	April 2019

## EXPERIENCE

### Research Intern

*National Institute of Technology*

June 2024 – August 2024

Sikkim, Assam

- Collaborated with a team of four on a Video2Music generator, a multimodal learning project, utilizing LSTM and GRU architectures.
- Enhanced model performance through meta-heuristic optimization techniques, including Particle Swarm Optimization and Ant Colony Optimization.
- Achieved a 2% increase in model accuracy by fine-tuning hyperparameters, deepening understanding of multimodal learning processes.

### Summer Research Intern

May 2024 – July 2024

Telangana

*Indian Institute of Technology, Hyderabad*

- Contributed to the development of semantic segmentation models for the project "Vision Capabilities for a Bi-Pedaled Robot" under Prof. Sumohana S. Channappayya.
- Conducted in-depth research on segmentation architectures, ultimately selecting the DeepLabv3+ model based on project requirements and performance metrics.
- Analyzed and compared various MobileNet backbones to identify the optimal model based on accuracy and inference time, enhancing overall segmentation efficiency.

### Research Intern

December 2023 – February 2024

Andhra Pradesh

*Indian Institute of Information Technology, Sri City*

- Contributed to research in autonomous navigation, focusing on obstacle avoidance under the guidance of faculty mentor Dr.Prabhu Prasad and Dr. Pavan Kumar.
- Collaborated as a team to set up ROS noetic environment and Turtlebot3 waffle pi model in real life as well as on Gazebo simulation.
- After detailed research and analysis, implemented A\* algorithm as a global planning algorithm and DWA local path planning algorithm which efficiently avoided obstacles.

## TECHNICAL PROJECTS

### Multimodal Information Retrieval Using Text and Image

August - November 2024

- Collaborated with a 5-member team to build a multimodal retrieval system enabling text and image-based search, with advanced deep learning models (Sentence Transformers and Vision Transformers) for vector embedding.
- Utilized Elasticsearch for efficient indexing, improving search scalability and response time for large-scale queries.
- Conducted rigorous testing to optimize system precision, query processing speed, and user experience.

### Question Generation using Generative AI for Reading Comprehension

September 2024 - November 2024

- Collaborated with a team of four to develop an AI-powered system using the Llama 3.1 model to generate varied question types (open-ended, MCQs, fill-in-the-blank) for reading comprehension assessments.
- Integrated NLP techniques like Sense2Vec and Named Entity Recognition (NER) to improve question relevance and accuracy.
- Enhanced model performance through iterative evaluation, achieving precision of 73%, recall of 87%, and incorporating human feedback.

### Cardio Vascular Disease Prediction using Machine Learning Algorithms

February 2024 – May 2024

- Processed an IEEE dataset on Heart disease parameters and predicted the possibility of diagnosing the disease.
- Used different algorithms like SVM, Neural Networks, Random Forest and XG Boost and achieved the best accuracy of 89.5% through Random Forest Classifier.
- Designed a Streamlit app for the Prediction of CVD and dashboard to show the statistics observed in the dataset.

## PUBLICATIONS

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1. N. Chouti, S. Kusale, S. Mishra, S. Rajora, P. Prasad, B. B. Sinha, and M. K. V., "Enhancing Multi-Criteria Recommendation Systems with Hot Deck Imputation and User-Specific Similarity Measures," in *Proc. 2nd Int. Conf. on Artificial Intelligence: Theory and Applications (AITA)*, 2024.
2. N. Chouti, S. Kusale, S. Mishra, S. Rajora, P. Prasad, B. B. Sinha, and M. K. V., "Deep Learning-Based Multi-Criteria Recommender System: Leveraging Autoencoders for Improved Personalization," in *Proc. 1st Int. Conf. on Computing, Sciences & Communications (ICCSC)*, 2024.
3. R. Kherudkar, S. Tiwari, U. Vedantham, N. Chouti, P. Prasad B. M., P. Kumar B. N., and M. K. Vanahalli, "Implementation and Comparison of Path Planning Algorithms for Autonomous Navigation," in *Proc. 2nd IEEE Conf. on Engineering Informatics (ICEI)*, 2024.
4. U. Vedantham, N. Chouti, K. Naik, and S. C. K., "Heart Health Insights: Analysing Data and Visualising Predictive Factors for Cardiovascular Disease," in *Proc. 2nd IEEE Conf. on Engineering Informatics (ICEI)*, 2024.

## COMMUNITY & LEADERSHIP

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### Non Technical Lead

*Google Developer Student Club*

August 2023 – August 2024

Dharwad, Karnataka

- Fostered a collaborative and inclusive environment by working with technical leads to ensure a balanced range of events, encouraging team members to contribute their unique skills and perspectives.
- Served as the backbone of the club, orchestrating successful events with a team of eleven skilled individuals.
- Organized events attended by over 150 students, showcasing effective leadership and organizational prowess.

### Vice President

*Entrepreneurship Cell (E-Cell)*

August 2022 – December 2023

Dharwad, Karnataka

- Collaborated with the team to develop and implement the strategic vision and goals of the E-Cell towards entrepreneurship.
- Encouraged and facilitated student participation in entrepreneurship-related activities.
- Successfully organized The Shark Tank 2.0, annual pitching event of the club and mentored support for the plan and execution of their ideas along with the team.

## TECHNICAL & SOFT SKILLS

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**Languages:** Python, C, Java, HTML, CSS, JavaScript.

**Operating Systems:** Linux, MS Windows, Android, ROS.

**Libraries:** Javascript, Numpy, Matplotlib, Scipy, Pytorch, Keras, Pandas, Seaborn.

**Developer Tools:** PyCharm, Visual Studio Code, Google Colab, Spyder, MySQL, GitHub.

**Soft Skills:** Communication, Management, Leadership, Teamwork, Planning and Coordinating, Problem solving, Adaptability, Presentation skills.

## CERTIFICATIONS

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**Google Professional Project Management (Coursera)**

January 2025

**Machine Learning by DeepLearning.AI (Coursera)**

June 2024

**J.P. Morgan Software Engineering Virtual Experience on Forage**

November 2023

**JPMorgan Chase & Co. Agile Job Simulation on Forage**

November 2023

## ADDITIONAL ACTIVITIES/Achievements

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- Participated as an active member of the National Cadet Corps (NCC), fostering community engagement, teamwork, and leadership through various camps and activities, including yoga and plantation drives.
- Secured 2 Bronze Medals in Relay and Triple Jump at the Inter IIIT Sports Meet (2022, 2023), showcasing athletic excellence.
- Won two bronze medals in the Freedom Run 2.0 and 3.0 and achieved Runner-Up position in the Dharwad District Basketball Competition, promoting sportsmanship and physical fitness.
- Successfully hosted, managed and anchored events like Habba Cultural Fest, Intra Sports Meet, etc. in the institute.